



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

26-0555690-PDA
20-Mar-2026
19-Mar-2031
London Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

DEIF A/S

located at

FRISENBORGVEJ 33, , SKIVE, Denmark, DK-7800

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Alarm and Monitoring System

Model: Alarm Panel, AL8-2

Endorsements:

Tier: 5 - Unit Certification Required

This Product Design Assessment (PDA) Certificate remains valid until 19/Mar/2031 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Peter Edward (Peter Deegan) Lewis
Deegan,Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

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SKIVE
Denmark DK-7800
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Web: www.deif.com

Tier: 5 - Unit Certification Required

Product: Alarm and Monitoring System
Model: Alarm Panel, AL8-2
Endorsements:

Intended Service:

ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International Standards.

Description:

The AL8-2 is a microprocessor-based, panel-mounting system based on the Q96 design, with push-button programming on the front faceplate and time-delay functions. It monitors up to 8 channels, such as temperature, pressure, tank level, switchboard and other parameters in machinery and auxiliary equipment and provides alarm indications when the threshold limits are exceeded. Each input can be individually programmed for N/O or N/C alarm contact output. Up to 5 units can be arranged as master/slave configurations.

Rating:

Supply voltage: 12 to 110 VDC +/- 25% (min. 10VDC) Consumption: approx: 6W;
Operating temperature: -25 to 70 degree C;
Protection @ Front IP: 54,
Protection @ Terminals IP: 20

Service Restriction:

- 1) Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
- 2) When incorporated within a system of Category II or III in accordance with 4-9-3/7.1 and 4-9-3/Table 1 of the ABS Rules for Building and Classing Marine Vessel Rules 2026, the documentation detailed in 4-9-3/Table 3 & 4 is to be submitted to ABS or to be available for review by ABS as applicable. Unit certification will be required at the system assembly level.
- 3) This PDA covers only the hardware aspects of the product and does not cover any cybersecurity (IACS E27) requirements.
- 4) Each configuration and external connection is to be specifically approved by ABS engineering.
- 5) If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of, asbestos in this product.

Notes/Drawing/Documentation:

To be Updated.

Drawing Submitted at Last Revalidation:

Drawing No. Software documentation: EPC0375-A- Long-term test, Deif, Date: January 2010, Pages: 1-6,
Drawing No. EPC0375-B-Performance test, Deif, Date: January 2010, Pages: 1-14,
Drawing No. EPC0375-C-Software Release Check List Version 2.0, Pages: 1-2
Drawing No. Data Sheet- 4921230002, Version D, Pages: 1
Drawing No. Programming Manual- 4189320003, Version C, Pages: 1-19
Drawing No. Table of Products- 4921240140 Version ZI, Pages: 6
Drawing No. Type Certificate, 4124020002 Version B, Pages: 1

Terms of Validity:

This Product Design Assessment (PDA) Certificate remains valid until 19/Mar/2031 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment

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Tier: 5 - Unit Certification Required

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STANDARDS

ABS Rules:

2026 Rules for Conditions of Classification, Part 1A, 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, which cover the following:
2026 Marine Vessel Rules: 4-8-3/1.7, 4-8-3/1.9, 4-8-3/1.11, 4-9-9/7, 4-9-9/13, 4-9-9/Table1;

2025 Rules for Conditions of Classification - Offshore Units and Structures, Part 1B, 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, which covers the following:

2026 Offshore Units Rules: 4-1-1/7.9, 4-3-1/11, 6-1-1/9, 6-1-1/13;

2026 Rules for Conditions of Classification – Light and High Speed Craft, Part 1C, 1-1-4/11.9, 1-1-A2, 1-1-A3,
2026 High Speed Craft: 4-6-1/11, 4-7-9/7, 4-7-9/15.5, 4-7-9/Table 9;

2025 Rules for Building and Classing Facilities on Offshore Installations: 1-6/3; 3-6-, 3-7/3.5

National:

NA

International:

IACS UR E10 Rev 10:2024

Government:

NA

EUMED:

NA

OTHERS:

NA